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NINTH ANNUAL REPORT

OF

THE TRUSTEES

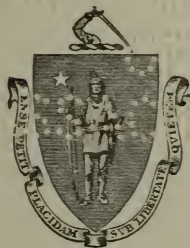
OF THE

MASSACHUSETTS

STATE SANATORIUM

AT RUTLAND.

SEPTEMBER 30, 1905.



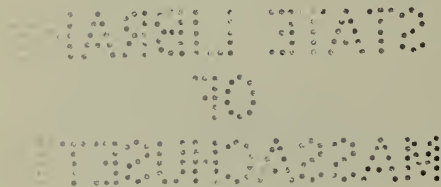
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## CONTENTS.

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	PAGE
TRUSTEES AND OFFICERS, . . . . .	5
REPORT OF THE TRUSTEES, . . . . .	7
REPORT OF THE SUPERINTENDENT AND TREASURER, . . . . .	12
REPORT OF THE EXAMINING AND VISITING PHYSICIANS, . . . . .	23
LIST OF WAGES, . . . . .	28



# OFFICERS

## OF THE

### MASSACHUSETTS STATE SANATORIUM.

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#### TRUSTEES.

A. W. ESLEECK,	.	.	.	.	.	.	.	.	HOLYOKE.
W. E. PARKHURST,	.	.	.	.	.	.	.	.	CLINTON.
J. P. RAND, M.D., <i>Secretary</i> ,	.	.	.	.	.	.	.	.	WORCESTER.
A. C. GETCHELL, M.D.,	.	.	.	.	.	.	.	.	WORCESTER.
MRS. FANNY S. RUSSELL,	.	.	.	.	.	.	.	.	BROCKTON.
MRS. SYLVIA B. KNOWLTON,	.	.	.	.	.	.	.	.	WEST NEWTON.
J. C. HAMMOND, <i>Chairman</i> ,	.	.	.	.	.	.	.	.	NORTHAMPTON.

#### EXAMINING AND VISITING PHYSICIANS.

VINCENT Y. BOWDITCH, M.D.,	.	.	.	.	.	.	BOSTON.
HERBERT C. CLAPP, M.D.,	.	.	.	.	.	.	BOSTON.

#### RESIDENT OFFICERS.

WALTER J. MARCLEY, M.D.,	.	.	<i>Physician, Superintendent and Treasurer.</i>
MARY E. THRASHER,	.	.	<i>Matron and Superintendent of Nurses.</i>
HENRY B. DUNHAM, M.D.,	.	.	<i>Physician.</i>
GEORGE N. LAPHAM, M.D.,	.	.	<i>Physician.</i>
BAYARD T. CRANE, M.D.,	.	.	<i>Physician.</i>
THOMAS N. STONE, M.D.,	.	.	<i>Physician.</i>
CHARLES E. CARROLL,	.	.	<i>Bookkeeper.</i>
FLORENCE M. FRASER,	.	.	<i>Dietitian and Steward.</i>
WILLIAM F. MOORE,	.	.	<i>Chief Engineer.</i>
FREDERICK H. DRURY,	.	.	<i>Farmer.</i>



# Commonwealth of Massachusetts.

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## REPORT OF TRUSTEES.

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*To His Excellency the Governor of the Commonwealth and to the Honorable Council.*

The trustees of the Massachusetts State Sanatorium respectfully submit their ninth annual report.

We herewith transmit the report of the superintendent and treasurer and of the medical staff. The medical reports continue to be of the greatest interest, and are of increasing value.

### THE CAPACITY OF THE SANATORIUM.

The sanatorium now accommodates 365 patients in cold weather and 355 in warm weather. The difference results from the fact that in the warmer months it is thought best to remove about 10 beds, in order to relieve what would be at that season an uncomfortably crowded condition in some of the wards. These numbers fully occupy the new brick cottages which have now been completed. A third cottage is in process of construction, designed for 24 beds, to be used as an infirmary. It is believed that this, when completed, will greatly add to the comfort of those who from time to time become so ill as to be confined to their beds. It is to be completed in June next. The capacity will then be in winter 389, in summer 379. Certain conditions, however, cause the number to vary somewhat from week to week. Thus, when in an emergency additional nurses are required, they occupy beds which would otherwise be for women patients. We have no nurses' home, although one is much needed.

### THE NEW HEATING PLANT AND NEW LAUNDRY.

The new heating plant and new laundry are satisfactory. Being now in a detached building, they are no longer a source of anxiety by reason of possible risk from fire.

## THE EXPENSE PER CAPITA.

The expense per capita constantly receives the most watchful care. We ask the authorities to bear in mind that the work of this sanatorium is in a field which is still new. The success of the work must in no degree be diminished by unwise economy in quality of food or care. We are pleased to note that the expense this year is reduced to \$8.83 per week, as against \$9.36 last year.

For the information of all we venture to report a letter received from Dr. Trudeau, the pioneer in this work in the Adirondacks:—

SARANAC LAKE, N. Y., Jan. 30, 1905.

Dr. WALTER J. MARCLEY, *Rutland, Mass.*

DEAR DOCTOR:—I have read with great interest the report of the Massachusetts State Sanatorium, and I want to congratulate you and all who are associated with the work on the way in which it has been done, and on what you have succeeded in accomplishing.

To obtain such results in a sanatorium that is not situated in a climate making any specific claims for benefiting tuberculous patients shows how thoroughly well managed the daily habits, diet and medical treatment must have been, and is of the utmost value to the entire country in demonstrating what may be accomplished outside of health resorts.

I note that your expense per capita is \$9.36. This might strike those unaccustomed to treating tuberculous cases as rather high, but it is a very different matter to run a sanatorium for the treatment of tuberculosis, and an ordinary hospital, so far as the expenses are concerned. Each patient requires more space, more food and careful supervision; and I find, in my own institution, were it not that most of the work done is given on humanitarian grounds, and much of it for the same reason is not sufficiently paid, the expense would run very high. I think Massachusetts deserves great credit for having shown other States the way in curing incipient tuberculosis.

Very sincerely yours,

E. L. TRUDEAU.

## OUT-PATIENT DEPARTMENT.

Many tuberculous invalids resort to Rutland and find board in private houses. After conference with the State Board of Charity, and after much consideration, the trustees are establishing an out-patient department, for the benefit of such persons in the vicinity as may be unable to pay for medical attendance.



The superintendent and the other resident physicians, together with Dr. W. C. Chamberlain and Dr. David P. Butler, both resident and practising in Rutland, will constitute the medical staff, and arrange the hours when some one of them will attend to this duty. Cordial thanks are due to Drs. Chamberlain and Butler for their willingness to co-operate gratuitously in this work. It is an experiment, and its continuance will be determined by experience, as that shall be gathered.

During the past year Dr. Dunham and Dr. Lapham, the regularly employed physicians at the sanatorium, have made such of the examinations for admission to the sanatorium as have taken place at the Massachusetts General Hospital, each spending a day every week in Boston for that purpose. The tabulation of results has been made at the sanatorium by the resident physicians, with the co-operation and advice of the visiting physicians.

#### APPLICATION OF CIVIL SERVICE RULES.

The sanatorium employs patients so far as possible to do clerical work, copying, classification of records, typewriting and the like. Is it not expedient to modify the civil service rules so that patients may be preferred, or exempted from the rules?

The Ohio State Sanatorium Commission visited Rutland on April 7, 1905, and spent a day with our trustees in examination of the sanatorium and its work. The visitors were Hon. W. D. Gilbert, State Auditor; Hon. Wade H. Ellis, Attorney-General; C. O. Probst, M.D., secretary of the State Board of Health; T. B. Galloway, Esq., secretary to the Governor; Judge John D. Driggs; Frank L. Packard, Esq., architect.

In the Statutes of 1905, chapter 434, relative to trespassing on lands of State institutions of the classes named, the sanatorium is omitted, apparently by accident. We have need of the same protection, and ask that the sanatorium be included.

#### NEED OF FARM BUILDINGS AND A NEW ROAD.

We beg leave to refer to our report on this subject. We ask the same appropriation for the road, \$4,000. This outlay is recommended by the Massachusetts Highway Commission. Their engineers have laid out the road. It will give a road of good quality and grade to Muschopauge station, instead of a

hard, steep and muddy road. Economy in transportation will pay the cost in a very few years, and add to the comfort of patients and all who come and go.

The farm barn, where cows and horses are kept, stands on the front lawn of the sanatorium. It is old and unsightly. We repeat this, by way of expressing the urgency of our need. The farmer's house is needed for other employees. It is inconvenient for its present use, and annexed to it are very inadequate and unsuitable quarters for laborers. The detailed statement of needs is as follows:—

1. Farmer's house.
2. Annexed wing for help, with sleeping accommodations for 12 men.
3. Barn for hay.
4. Ell for cow stables.
5. Ell for horse barn.
6. Cold-storage cellar for vegetables.
7. A building of moderate cost for a piggery.

Careful study shows that these urgently needed buildings will require an appropriation of \$20,000. So far as we are informed, no other charitable institution established by the State is so destitute in this respect.

#### CARE OF GROVES.

Beautiful woodlands protect the grounds on the north and north-west. A small portion of them is shown in the "view" opposite the title page. The grove would be made still more attractive if some pruning could be done at moderate expense through several years, in such manner as the State Forester's department may advise. Paths should also be laid out. An outlay of \$500 yearly for a time would greatly add to the comfort and beauty of the surroundings. That amount is recommended for this year. This need, however, is not so imperative as the need of road and buildings.

#### ADDED MEMBERS OF THE BOARD.

The five trustees who have constituted the Board before the present year very gladly welcome the appointment of two women to the Board. Mrs. Agnes H. Long (Mrs. John D. Long),

appointed to the position, was obliged after brief and helpful service to resign.

The new members now on the Board are Mrs. Fanny S. Russell (Mrs. B. B. Russell) of Brockton and Mrs. Sylvia B. Knowlton (Mrs. H. M. Knowlton) of West Newton. They have devoted much time, and been very helpful in their new duties. The other members of the Board think that this mention should be made.

#### ADMISSION TO THE SANATORIUM.

The work so greatly interests the public that great disappointment is felt when applicants prove too far advanced to be admitted. All strictly incipient cases have been received ever since the sanatorium opened, and very many of the hopeful but moderately advanced cases. The sanatorium has at all times had all its beds occupied, except for the brief intervals which naturally occur between discharged and incoming patients.

We wish the fact could be everywhere better known that patients are received at the sanatorium strictly on the results of recorded physical examinations. The trustees always abstain from exerting any influence in such matters.

If this sanatorium received advanced cases, which at least must be treated for twice as long a time as incipient ones, it could treat only half as many.

For the harmonious working of the sanatorium continuously since the first patient was received Oct. 10, 1898, and for the successful results achieved, the Commonwealth is greatly indebted to the ability and devotion of the medical staff, both resident and visiting, and that of the superintendent and all his other assistants.

A. W. ESLEECK,  
W. E. PARKHURST,  
J. P. RAND,  
A. C. GETCHELL,  
F. S. RUSSELL,  
SYLVIA B. KNOWLTON,  
J. C. HAMMOND,

*Trustees.*

## REPORT OF SUPERINTENDENT AND TREASURER.

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I have the honor to present herewith my report for the year ending Sept. 30, 1905.

Examinations of applicants for admission have been made as formerly, according to the following schedule:—

At the sanatorium any day except Sunday.

At the Boston office of the sanatorium, which is located at the new out-patient department of the Massachusetts General Hospital, Wednesdays and Saturdays, from 1.30 to 3 o'clock P.M.

At Worcester City Hospital Wednesdays and Saturdays, from 9 to 10 A.M.

At Springfield by Dr. Everett A. Bates, 57 Chestnut Street.

At Pittsfield by Dr. J. F. A. Adams, 114 Wendell Avenue.

At Fall River by Dr. A. S. MacKnight, 355 North Main Street.

At Lowell by Dr. Boyden H. Pillsbury, 58 Kirk Street.

The time at each of the last four places, Wednesdays and Saturdays, at 2 P.M.

Recently the Worcester Hahnemann Hospital has been added to the list. Examinations are made there Thursdays, 4 to 5 P.M.

The total number of applicants examined during the year is 1,847. Of these, 843, or 46 per cent., were considered favorable for admission; 783, or 42 per cent., were considered unfavorable; and 221, or 12 per cent., doubtful. Many of these doubtful cases, after subsequent examinations, were deemed favorable for admission.

The increase in capacity of the institution (this year averaging 50 more than last year) has made it necessary to admit a larger percentage of more advanced cases. The percentage of acceptable cases upon examination has been the same this year as last year. We continue to hope that, as the educational influ-

ence of the sanatorium becomes more widely spread, a larger proportion of cases in the first stage of the disease will apply for admission.

*Admissions and Discharges.*

PATIENTS.	Males.	Females.	Totals.
Number of patients in the sanatorium Oct. 1, 1904, .	135	117	252
Number admitted within the year, . . . . .	430	435	865
Number discharged during the year, . . . . .	380	375	755
Number of deaths, . . . . .	4	—	4
Patients remaining in the sanatorium Sept. 30, 1905, .	181	177	358
Daily average number of patients, . . . . .	166	141	307

*Residence of Patients admitted.*

COUNTIES.	Patients.	COUNTIES.	Patients.
Suffolk, . . . . .	324	Norfolk, . . . . .	46
Middlesex, . . . . .	169	Plymouth, . . . . .	21
Essex, . . . . .	91	Hampshire, . . . . .	8
Worcester, . . . . .	95	Berkshire, . . . . .	17
Bristol, . . . . .	34	Barnstable, . . . . .	5
Hampden, . . . . .	50	Franklin, . . . . .	5

*Civil Condition.*

	Males.	Females.	Totals.
Single, . . . . .	254	260	514
Married, . . . . .	164	147	311
Widowed, . . . . .	11	19	30
Divorced, . . . . .	1	9	10



*Occupations.*

	Males.	Females.		Males.	Females.
Artist, . . . .	1	-	Chemist, . . . .	1	-
Architect, . . . .	1	-	Cabinet makers, . .	3	-
Actor, . . . .	1	-	Civil engineer, . .	1	-
Advertising agents, .	2	-	Designers, . . . .	3	1
Attendants, . . . .	3	3	Draughtsmen, . . .	3	-
Baggageman, . . .	1	-	Domestics, . . . .	-	59
Barbers, . . . .	8	-	Dressmakers, . . .	-	12
Bartenders, . . . .	6	-	Elevator man, . . .	1	-
Blacksmiths, . . .	2	-	Engineers, stationary,	2	-
Bookkeepers, . . .	9	8	Errand boy, . . . .	1	-
Butchers, . . . .	4	-	Expressman, . . . .	1	-
Brakemen, . . . .	4	-	Electricians, . . .	2	-
Bottlers, . . . .	2	-	Factory and mill oper- atives.	88	71
Boiler maker, . . .	1	-	Farmers, . . . .	5	-
Basket maker, . . .	1	-	Firemen, stationary, .	2	-
Book binders, . . .	4	1	Florist, . . . .	1	-
Bell boy, . . . .	1	-	Foremen, . . . .	2	-
Bundle girl, . . . .	-	1	Fruit and produce merchant.	1	-
Carpenters, . . . .	3	-	Gardeners, . . . .	2	-
Cigar makers, . . .	5	-	Grocers, . . . .	2	-
Clerks, . . . .	40	7	Guard, Boston Ele- vated Railway.	1	-
Coachmen, . . . .	6	-	Home work, . . . .	-	30
Chauffeur, . . . .	1	-	Housewives, . . . .	-	130
Conductor, electric railway.	1	-	Hair dressers, . . .	-	2
Cooks, . . . .	2	3	Insurance agents, . .	4	-
Cashiers, . . . .	-	2	Iron moulder, . . .	1	-
Casket maker, . . .	1	-	Janitors, . . . .	3	-

*Occupations — Concluded.*

	Males.	Females.		Males.	Females.
Jewelers, . . .	2	—	Salespeople, . . .	19	17
Laborers, . . .	10	—	Shoemakers, . . .	4	—
Letter carriers, . . .	3	—	Shippers, . . .	4	—
Laundresses, . . .	—	3	Stenographers, . . .	1	21
Lamp maker, . . .	1	—	Store keepers, . . .	2	—
Machinists, . . .	20	—	Stone cutters, . . .	5	—
Messengers, . . .	2	—	Switchmen, . . .	2	—
Motormen, . . .	5	—	Students, . . .	13	19
Milliner, . . .	—	1	Seamstresses, . . .	—	6
Musician, . . .	—	1	Silver plater, . . .	1	—
None, . . .	2	7	Sailors, . . .	3	—
Newspaper reporter, . . .	1	—	Stock boy, . . .	1	—
Nursemaids, . . .	—	4	Ship builder, . . .	1	—
Nurses, student, . . .	—	1	Stablemen, . . .	2	—
Nurses, trained, . . .	—	4	Steward, . . .	1	—
Optician, . . .	1	—	Truckman, . . .	1	—
Painters, . . .	3	—	Tailors, . . .	13	2
Plumber, . . .	1	—	Teachers, . . .	1	5
Peddlers, . . .	4	—	Teamsters, . . .	24	—
Pharmacists, . . .	3	—	Telegraph operator, . . .	—	1
Photographer, . . .	1	—	Telephone operators, . . .	—	5
Proprietor billiard room.	1	—	Ticket seller, . . .	1	—
Pressman, . . .	1	—	Ticket chopper, . . .	1	—
Printers, . . .	19	—	Upholsterer, . . .	1	—
Professional singer, . . .	1	—	Valet, . . .	1	—
Physician, . . .	1	—	Waiters, . . .	6	7
Roofer, . . .	1	—			

The financial statement for the year is as follows:—

Cash receipts on hand Oct. 1, 1904, as per eighth annual report,	\$8,887 81
Received from State Treasurer, . . . . .	215,486 70
Received from patients for board and treatment, . . . .	46,130 78
Received from cities and towns for support of patients, . .	2,317 32
Received from State, soldiers' relief, and from charitable associations for support of patients, . . . . .	2,622 12
Received from patients for hospital and cuspidor supplies, .	2,516 64
Received from patients for freight and express, . . . .	91 56
Received from patients for telephone and telegraph, . .	137 98
Received from patients for stationery and office supplies, .	364 77
Received from patients for sundries, . . . . .	371 32
Received from sale of farm products, . . . . .	2,436 52
Received from sale of grease, . . . . .	1,070 61
Received from sale of other merchandise, . . . . .	348 89

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\$282,783 02

#### EXPENSES.

Salaries and wages, . . . . .	\$37,431 93
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#### Food:—

Butter and butterine, . . . . .	\$3,755 45
Beans, . . . . .	75 55
Bread and crackers, . . . . .	120 66
Cereals, rice, meal, etc., . . . . .	578 29
Cheese, . . . . .	896 84
Eggs, . . . . .	5,911 57
Flour, . . . . .	1,653 69
Fish, . . . . .	804 17
Fruit, . . . . .	1,333 58
Meats, . . . . .	23,988 77
Milk, . . . . .	4,550 07
Molasses, . . . . .	59 35
Sugar, . . . . .	1,500 19
Sundries, . . . . .	2,624 01
Tea, coffee and cocoa, . . . . .	461 68
Vegetables, . . . . .	1,724 36

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50,038 23

#### Furnishings:—

Beds, bedding, table linen, etc., . . . . .	\$641 59
Brushes, brooms, etc., . . . . .	164 67
Carpets, rugs, etc., . . . . .	57 20
Crockery, glassware, cutlery, etc., . . . . .	624 14
Furniture and upholstery, . . . . .	498 47
Kitchen furnishings, . . . . .	240 50
Wooden ware, buckets, pails, etc., . . . . .	33 50
Sundries, . . . . .	459 56

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2,719 63

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*Amount carried forward,* . . . . . \$90,189 79



*Amount brought forward,* . . . . . \$90,189 79

Heat, light and power: —

Coal, . . . . .	\$5,161 38	
Electricity, . . . . .	15 33	
Oil, . . . . .	182 25	
Sundries, . . . . .	327 24	
Wood, . . . . .	273 00	
		<hr/>
		5,959 20

Repairs and improvements: —

Cement, lime and plaster, . . . . .	\$172 59	
Doors, sashes, etc., . . . . .	4 00	
Electrical work and supplies, . . . . .	10 92	
Hardware, . . . . .	203 98	
Lumber, . . . . .	178 05	
Mechanics and laborers (not on pay roll), . . . . .	1,594 44	
Paints, oils, glass, etc., . . . . .	432 35	
Plumbing, steam fitting and supplies, . . . . .	380 79	
Roofing and materials, . . . . .	18 00	
Sundries, . . . . .	932 84	
		<hr/>
		3,927 96

Farm, stable and grounds: —

Blacksmith and blacksmith supplies, . . . . .	\$116 45	
Carriages, wagons and repairs, . . . . .	621 63	
Fertilizers, vines, seeds, etc., . . . . .	772 82	
Harness and repairs, . . . . .	74 97	
Hay, grain, etc., . . . . .	4,539 74	
Labor (not on pay roll), . . . . .	623 44	
Live stock: —		
Cows, . . . . .	279 00	
Horses, . . . . .	200 00	
Sundries, . . . . .	360 31	
Tools, farm machines, etc., . . . . .	228 36	
		<hr/>
		7,816 72

Miscellaneous: —

Books, periodicals, etc., . . . . .	\$38 80	
Chapel services and entertainments, . . . . .	230 90	
Freight, expressage and transportation, . . . . .	1,781 97	
Hose, etc., . . . . .	87 85	
Boston office, . . . . .	1,341 11	
Medicine and hospital supplies, . . . . .	2,725 04	
Postage, . . . . .	750 24	
Printing and printing supplies, . . . . .	438 75	
Cuspidor supplies, . . . . .	2,874 53	
Soap and laundry supplies, . . . . .	1,182 82	
Stationery and office supplies, . . . . .	432 75	
		<hr/>

*Amounts carried forward,* . . . . . \$11,884 76 \$107,893 67

<i>Amounts brought forward,</i> . . . .	\$11,884 76	\$107,893 67
Sundries, . . . . .	2,675 14	
Telephone and telegraph, . . . .	689 50	
Travel and expenses (officials), . . .	1,519 16	
Water, . . . . .	749 99	
		<hr/> 17,518 55
Total, . . . . .		\$125,412 22
Extraordinary expense, . . . . .		8,011 40
Extraordinary expense, special appropriation, . . . .		64,532 36
Sent to State Treasurer, cash receipts on hand Sept. 30, 1904, .		8,887 81
Sent to State Treasurer, cash receipts of current year, . .		48,305 39
Cash receipts on hand to be sent, . . . . .		10,103 12
Liabilities of 1904 (paid this year), . . . . .		17,530 72
		<hr/> \$282,783 02

## RESOURCES AND LIABILITIES.

*Resources.*

Cash on hand, . . . . .	\$10,103 12	
Bills receivable, . . . . .	3,224 21	
Unexpended appropriation for expenses, . . .	46,498 63	
Total resources applicable to ordinary ex- penses, . . . . .		<hr/> \$59,825 96

*Liabilities.*

Salaries unpaid, . . . . .	\$3,658 81	
Miscellaneous bills (current ex- penses), . . . . .	17,922 11	
		<hr/> \$21,580 92
Extraordinary expense, . . . . .	3,867 36	
Total liabilities, . . . . .		<hr/> 25,448 28
Balance for the institution, . . . . .		\$34,377 68

## SUMMARY OF CURRENT EXPENSES FOR THE YEAR ENDING SEPT. 30, 1905.

Total expenditures for the year, . . . . .	\$125,412 22
Unpaid bills, . . . . .	21,580 92
	<hr/> \$146,993 14
Deducting amount of sale of supplies to patients, . . . .	4,901 77
	<hr/> \$142,091 37
Deducting further the increase of supplies on hand Oct. 1, 1905,	1,097 93
	<hr/> Total current expenses, . . . . . \$140,993 44

Dividing this amount by the daily average number of patients, 307, gives an average annual cost of \$459.26, equivalent to an average weekly cost of \$8 83.

The farm account is as follows:—

## DR.

Blacksmith, . . . . .	\$98 35
Board of men, at \$15 per month, . . . . .	1,155 00
Fertilizers and seeds, . . . . .	1,016 26
Grain and feed for stock, . . . . .	5,148 57
Harness, . . . . .	15 20
Labor not on pay roll, . . . . .	1,011 46
Live stock, cows, . . . . .	324 00
Miscellaneous supplies and repairs, . . . . .	120 77
Pay roll, . . . . .	4,526 16
Tools, . . . . .	174 22
Wagons, etc., . . . . .	102 08
Waste from sanatorium kitchen, . . . . .	200 00
	<hr/>
	\$13,892 07
Balance in favor of farm, . . . . .	886 97

---

\$14,779 04

## CR.

Board of driving horses, at \$15 per month, . . . . .	\$900 00
Labor for sanatorium,—putting in ice, hauling provisions from station, etc., . . . . .	1,433 25
Milk, 136,663½ quarts, at 4½ cents, . . . . .	5,808 21
Vegetables supplied, . . . . .	419 46
Sold:—	
Hay, . . . . .	144 88
Sleigh, . . . . .	10 00
Fertilizer, . . . . .	49 00
Grease, . . . . .	200 00
Cows, . . . . .	245 50
Hogs, . . . . .	1,933 64
Horse, . . . . .	100 00
Sundries, . . . . .	3 10
Products of the farm on hand, as estimated Oct. 1, 1905, . . . . .	2,072 50
Fourteen acres of pasture land reclaimed, at a cost of \$30 per acre, . . . . .	420 00
It is estimated that one-half the farmer's time is devoted to general care of outside matters, such as transportation of coal and other freight, the ice supply, care of filter beds, etc., the farm is therefore credited one-half his salary, . . . . .	400 00
Increase of live stock on farm, as per inventories of 1904 and 1905, . . . . .	639 50

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\$14,779 04

## PRODUCTS OF THE FARM.

*Delivered to the Sanatorium during the Year.*

Beans, shell, 35 bushels, at \$0.75 to \$1.50, . . . . .	\$43 50
Beans, wax, 26 $\frac{3}{4}$ bushels, at \$1, . . . . .	26 75
Beets, 24 bushels, at \$0.50 to \$0.80, . . . . .	16 25
Beet greens, 17 bushels, at \$0.25, . . . . .	4 25
Cabbage, 618 pounds, at \$0.016, . . . . .	9 91
Carrots, 12 bushels, at \$0.50 to \$1, . . . . .	7 10
Cauliflower, 5 heads, . . . . .	65
Celery, 440 bunches, at \$0.06 $\frac{1}{4}$ to \$0.10, . . . . .	33 47
Corn, sweet, 288 dozen, at \$0.08 to \$0.10, . . . . .	28 24
Cucumbers, 4,954, . . . . .	45 92
Lettuce, 280 dozen, at \$0.10, \$0.15 and \$0.25, . . . . .	52 10
Onions, 559 bunches, at \$0.015 to \$0.02, and 7 bushels, at \$0.60 to \$0.65, . . . . .	15 22
Pears, 1 bushel, . . . . .	1 75
Peas, 8 $\frac{1}{4}$ bushels, at \$1.50, . . . . .	12 37
Peppers, 124, at \$0.004, . . . . .	50
Radishes, 21 bushels, at \$0.75 to \$1, . . . . .	16 25
Rhubarb, 1,310 pounds, at $\frac{3}{4}$ cent, . . . . .	11 32
Squash, 3,100 pounds, at \$0.01, . . . . .	31 00
Swiss chard, 25 $\frac{1}{2}$ bushels, at \$0.33 $\frac{1}{3}$ , . . . . .	8 50
Tomatoes, 10 $\frac{1}{4}$ bushels, at \$1.04 $\frac{1}{2}$ , . . . . .	10 72
Tomatoes, green, 66 bushels, at \$0.60, . . . . .	39 60
Turnips, 10 $\frac{1}{4}$ bushels, at \$0.35 to \$0.75, . . . . .	4 09
	<hr/>
	\$419 46

*On Hand Oct. 1, 1905.*

Apples, 25 barrels, at \$2, . . . . .	\$50 00
Beets, 40 bushels, at \$0.60, . . . . .	24 00
Carrots, 100 bushels, at \$0.50, . . . . .	50 00
Celery, 33 dozen, at \$1, . . . . .	33 00
Ensilage, 225 tons, at \$4, . . . . .	900 00
Hay, 55 tons, at \$15, . . . . .	825 00
Hungarian, 2 tons, at \$12.50, . . . . .	25 00
Oats, fodder, 3 tons, at \$10, . . . . .	30 00
Rowen, 2 tons, at \$10, . . . . .	20 00
Rye, 20 bushels, at \$0.75, . . . . .	15 00
Rye straw, 2 tons, at \$15, . . . . .	30 00
Squash, 5 tons, at \$12.50, . . . . .	62 50
Turnips, 20 bushels, at \$0.40, . . . . .	8 00
	<hr/>
	\$2,072 50

During the past year 40 patients have been supported in the institution by cities and towns. The Associated Charities of Boston, Worcester and other cities, the Federation of Jewish

Charities of Boston, the Boston Provident Association, the Boston Association for the Relief and Control of Tuberculosis, and other charitable associations, have supported 37 patients at the sanatorium. I wish to express here my thanks for this timely assistance to many who are in need.

There have been more changes than usual in our staff. Dr. Bayard T. Crane entered upon his duties as assistant physician Nov. 15, 1904. Dr. George W. Derrick, after two years' satisfactory service in the laboratory and as general medical assistant, left the sanatorium July 1, 1905, to enter into private practice in Cambridge. We wish for him every success. Dr. George M. Stone came to us in August of this year as Dr. Derrick's successor. A new laboratory, larger and better equipped than the one now in use in the administration building, is being fitted up in the old laundry room, made vacant by removal of the laundry to the new building. The work of the laboratory physician will be much facilitated by this improvement.

Our present system of record keeping, filing of applications for admission, etc., is complete and very satisfactory, and of inestimable value to the institution. It is largely the work of Ralph O. Waitt, whose faithful services as record clerk extended over a period of more than three years, and who died in April, 1905.

Recently the physicians resident at the sanatorium, together with those practising in Rutland, Jefferson and Holden, have organized a medical club, known as the Rutland Clinical Club. We meet at the sanatorium twice every month, when papers upon medical topics are read and discussed. This club bids fair to become a prominent and important factor in the life of the sanatorium.

Our patients' "working list," which provides light work in doors or on the grounds for many of the patients, has continued in force throughout the year, with satisfactory results.

We have received warm clothing for patients, magazines and newspapers for the library, and other useful articles. The donors are herewith cordially thanked for these gifts. Many patients come to the sanatorium totally unprepared to take the treatment during the cold weather. They are in need of warm underwear, heavy out-of-door wraps, fur robes, etc. Such articles as these, when received are always put to most excellent use.

Without many faithful workers in all parts of the sanatorium such an institution as this could not exist. I take pleasure in expressing here my appreciation of the satisfactory services of all employees.

With grateful acknowledgment to your Board for your continued support, I am yours respectfully,

WALTER J. MARCLEY.



## REPORT OF THE EXAMINING AND VISITING PHYSICIANS.

SEPT. 30, 1905.

*To the Trustees of the State Sanatorium.*

LADIES AND GENTLEMEN: — We offer herewith the combined reports of the two medical departments for the year ending Sept. 30, 1905.

Whole number of patients discharged during the year,	760
Number who remained only about one month, and whose cases are therefore not considered,	194
Number taken into consideration in our report,	566

Of the 194 cases which are not considered, the majority were patients with symptoms favorable for treatment, but who left for various reasons at or before the end of the month, — sometimes because of urgent calls at home, often for unwillingness to conform to rules, at times for insubordination. A small minority were discharged because of increased evidence of rapidly advancing disease, which made a change imperative. In a few cases the time was extended over the one month limit, in order to determine by the tuberculin test the existence or otherwise of tubercular disease.

*Table of Results.*

Per Cent.	Result.	Incipient.	Moderately advanced.	Advanced.	Totals.
33.7	"Arrested," and "apparently cured," .	143	37	11	191
58.9	"Improved" (including all shades of improvement), . . . . .	75	167	91	333
7.4	"Not improved" (including four deaths),	6	15	21	42
	Totals, . . . . .	224	219	123	566 <sup>1</sup>

<sup>1</sup> Six of these only could be said to be somewhat doubtful cases of tuberculosis. The great majority of the remainder were positively tubercular.

"In the above table, in accordance with our previous custom, we use the terms "arrested" and "apparently cured" to express the same idea, viz., that all active symptoms, such as cough, sputa containing bacilli, and fever, have disappeared at the time of discharge, the general condition being one of apparent health.

Of the incipient cases, 64.2 per cent. were "arrested" or "apparently cured."

Of the 566 patients, the average length of stay was 5 mos. 7 days.

Of the 566 patients, the number who gained weight was . 544

Average gain in weight of these was . . . . . 13 $\frac{3}{4}$  pounds.

Of the 566 patients, the number who lost weight was . . 22

Average loss of weight of these was . . . . . 4 $\frac{1}{2}$  pounds.

Greatest gain in weight was . . . . . 53 $\frac{1}{2}$  pounds.

*Comparison of Percentages in the First, Second, Third, Fourth, Fifth, Sixth and Seventh Years.*

	1898-99.	1899-1900.	1900-01.	1901-02.	1902-03.	1903-04.	1904-05.
Per cent. of "arrested" and "apparently cured" cases, . . . . .	34.28+	42.35	46.12	48.31	48.97	44.8	33.7
Per cent. of all classes of "improved" cases, . . . . .	39.36+	44.70	47.64	44.51+	43.00+	47.7	58.9
Per cent. of "not improved" cases, . . . . .	26.04+	12.95	5.74	6.73+	7.90+	7.4	7.4

It will be noticed that the percentage of "arrested" and "apparently cured" cases this year is much smaller than that in previous years. The reason for this is readily explained by the fact that, in consequence of the great enlargement of the sanatorium, it became necessary to admit a much greater number of advanced cases than before, in order to fill the beds.

With the co-operation of the medical profession in trying to send only cases which are really showing the first symptoms of disease, we see no reason for not obtaining in the future results equal to those in the past.



SUBSEQUENT HISTORIES TO DATE OF FORMER PATIENTS OF  
BOTH DEPARTMENTS TREATED IN THE SANATORIUM PRE-  
VIOUS TO OCT. 1, 1904.

The subsequent histories of former patients make the crucial test of any method of treatment, and are of vital importance.

For the first time in the history of the sanatorium, tabulations of the results of former treatment have been made with painstaking care, and are hereby appended. That they give us convincing proof of the value of the work at Rutland in the past six years we think no one can deny.

Total number treated, . . . . .	2,200
Able to work, . . . . .	1,179
Not able to work, . . . . .	34
No reply to letter, . . . . .	377
No trace, . . . . .	49
Dead, . . . . .	561
	<hr/>
	2,200
Total number "arrested" and "apparently cured," . . . . .	989
Able to work, . . . . .	743
Not able to work, . . . . .	14
No reply to letter, . . . . .	139
No trace, . . . . .	19
Dead, . . . . .	74 <sup>1</sup>
	<hr/>
	989

In reading these figures, it must be remembered, moreover, that failure to receive replies or inability to trace the patient does not mean necessarily that the result has been unfavorable. In many of the earlier cases we have failed to receive news for months after the first inquiries have been made. Oftentimes, too, favorable accounts have been received of former patients through others. It is reasonable to suppose, therefore, that many of those from whom we have not heard as yet are still alive and at work.

For the benefit of medical men, especially those who are closely connected with sanatoria, the following tables of results are given as a means of comparison, in accordance with the plan

<sup>1</sup> Four have died from causes other than tuberculosis.

adopted for trial in the National Association for the Study and Prevention of Tuberculosis at Washington last May.

It will be noted at once that the definition of the terms "arrested" and "apparently cured" differs from that hitherto used in our reports. The definitions are hereby appended. The whole report of the nomenclature committee can be found in the Transactions of the National Association for 1905, or in the Boston Medical and Surgical Journal, Oct. 26, 1905, p. 478, and Nov. 9, 1905, p. 539.

"*Arrested.*" — Absence of all constitutional symptoms; expectoration and bacilli may or may not be present; physical signs stationary or retrogressive; the foregoing conditions to have existed for at least *two months*.

"*Apparently cured.*" — All constitutional symptoms and expectoration with bacilli absent for a period of *three months*, the physical signs to be those of a healed lesion.

*Results by "National Association Classification and Tabulation."*

Per Cent.		Incipient.	Moderately advanced.	Far advanced.	Totals.
21.8	Apparently cured, . . . . .	78	23	7	108
40.6	Arrested, . . . . .	93	74	54	221
31.4	Improved, . . . . .	24	77	95	196
5.6	Not improved, . . . . .	4	9	28	41
	Totals, . . . . .	199	183	184	566

It will be readily understood that, owing to the length of time required to pronounce a case "arrested" or "apparently cured," many patients have been discharged by this method as "improved" simply, because for many reasons they were obliged to leave the sanatorium immediately after an apparent return to a normal state of health. In many of these cases the subsequent history would amply justify the more favorable terms. The question therefore arises, in order to give full justice to the results of sanatorium treatment, whether a period of probation after discharge should not be given before the final result is tabulated, in those cases who leave earlier than is thought best.

As to the needs of the institution, we urge the necessity of an increased number of verandas for reclining chairs outside

the main wards. We believe also that provision should be made for patients who are unable to supply themselves with the necessary number of blankets for the coldest weather.

We notice with satisfaction the erection of the new infirmary, and urge the speedy completion and equipment of the new laboratory, the old one being quite inadequate for the purpose and unhygienic.

Our special thanks are due to the assistant physicians, Dr. Henry B. Dunham, Dr. George B. Lapham, Dr. Bayard T. Crane and Dr. Thomas H. Stone. To the superintendent, Dr. Marcle, and the matron, Miss Thrasher, and the nurses, we wish to acknowledge their uniform courtesy and co-operation.

Respectfully,

VINCENT Y. BOWDITCH.

HERBERT C. CLAPP.

## LIST OF WAGES.

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Examining and visiting physicians (per annum), . . .	\$1,500 00
Superintendent and treasurer (per annum), . . .	2,500 00
Matron and superintendent of nurses (per annum), . . .	1,200 00
Assistant physician (per annum), two, each, . . .	1,000 00
Assistant physician (per annum), . . .	900 00
Assistant physician (per annum), . . .	500 00
Farmer (per annum), . . .	800 00
Bookkeeper (per annum), . . .	780 00
Chief engineer (per annum), . . .	1,000 00
Dietitian and steward (per month), . . .	75 00
Nurses, day (per month), . . .	\$15 to 45 00
Nurses, night (per month), . . .	35 and 40 00
Record clerk (per month), . . .	20 00
Stenographer (per month), . . .	30 00
Clerk's assistants (per month), . . .	25 00
Supervisor, male (per month), . . .	35 00
Supervisors, female (per month), . . .	\$17 to 35 00
Engineer and fireman (per month), . . .	35 and 50 00
Engineer and fireman (per month), without living, . . .	40 and 60 00
Cook (per month), without living, . . .	85 00
Baker (per month), without living, . . .	75 00
Carpenter (per day), without living, . . .	2 70
Night attendant (per month), . . .	35 00
Head laundress (per month), . . .	30 00
Laundry help, male (per month), . . .	25 00
Laundry help, female (per month), . . .	\$13 to 20 00
Ward help, male (per month), . . .	15 and 18 00
General work, male and female (per month), . . .	10 to 20 00
Storeroom man (per month), . . .	35 00
Pharmacist (per month), . . .	10 00
Kitchen help, male (per month), . . .	\$15 to 32 50
Coachman (per month), . . .	25 00
Teamsters (per month), . . .	25 00
Farm help (per month), . . .	\$20 to 25 00
Farm help (per month), without living, . . .	40 00
Farm help, without living (per day), . . .	\$1.50 to 1 75



# THE BLOCK of PLAN of STATE SANATORIUM RUTLAND, MASSACHUSETTS.

